

2012 - A Busy Year

- 35 sounding rocket launches
- 13-17 scientific balloons
- 7 aircraft science projects/
 914 flight hours
- 11 sounding rocket
 launches from Wallops
- Antares first launches



Launch Madness

Anomalous Transport Rocket Experiment (ATREX)

- March 15 April 2
- Night
- 5 launches in about 5 minutes
- Study of upper level jet stream by Clemson University
- Chemical tracer released to "see" the winds
- May be visible throughout mid-Atlantic





IceBridge

- Six year NASA study to map ice of Greenland/Arctic and Antarctica
- March May in Greenland
- 325 flight hours
- Wallops' developed Airborne Topographic Mapper (ATM) measures ice elevation
- Wallops has mapped Greenland ice sheets since 1993.



Inflatable Reentry Vehicle Flight Experiment (IRVE-3)

- •Demonstrate test technique, stability and survivability of an inflatable reentry aeroshell
- NASA Langley Research Center project
- •Builds on 2009 IRVE-2 test
- Late April
- Black Brant XI sounding rocket





IRVE-3 drawing



Hurricane and Severe Storm Sentinel (HS3)

- •2 NASA-owned Global Hawks
- •August October, 2012 2014
- study of hurricane development
- •10 flights each year
- 30 hours duration
- Global Hawk Specs
 - •116 ft. wing span
 - •15 feet high
 - •44 feet long
 - •11,000 nautical mile range



Education

- Student Internships
- Flight Education Opportunities
 - HASP (Balloon)
 - RockON/RockSat-C (sounding rocket June 24)
 - RockSat-X (sounding rocket Aug. 9)
- Educator Workshops
 - Wallops Rocket Academy for Teachers and Students (WRATS)
 - Wallops Balloon Experience for Education (WBEE)
 - Student Airborne Research Project (SARP)



Facility Improvements

- Wallops Island Shoreline Protection
 - Protecting more than \$1B in assets
 - Extending rock seawall 1,800 feet
 - Placing 3,199,000 cubic yards of sand along 3.7 miles of shoreline
 - Expected completion summer 2012
- Main Base Entrance Reconfiguration
 - New badging office
 - Ease congestion at main gate
 - Improves safety
 - Expected completion summer 2012



Antares (formerly Taurus II)

Work continues towards first launch



 Orbital is reassessing status and will provide launch update Feb. 9

 Prior to launch pad test we will have another community meeting to update



Opportunities

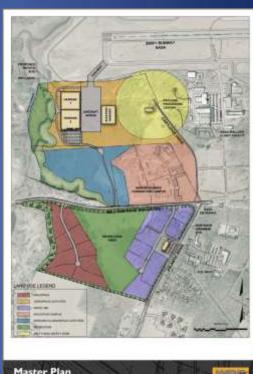
- Wallops Research Park
- Uninhabited Aerial Systems
- Wallops Aircraft Fleet
- Expendable Launch Vehicles
- Navy Field Carrier Landing





Research Park

- Continuing to work with
 Accomack County,
 Commonwealth of Virginia,
 and Marine Science Consortium
 to develop park
- Va. Governor included \$4M for taxiway to connect park and
 Wallops runway in 2012 budget request



Uninhabited Aerial Systems



- •Establishment of NASA/Airborne Sciences Global Hawk Ground Station at WFF
- Addition of new UAS platforms managed by NASA/WFF
- •Establishment of new North Wallops Island UAS Runway
- •Earth Science and Technology Development
- Working with Va. and Md. Agencies to obtain FAA test site designation

Aircraft Fleet Expansion

- High demand for use of airborne platforms
- Recently added C-23 Sherpa to fleet
- Possible additions:
 - C-130 aircraft
 - Huey helicopter





Small and Medium Launch Vehicles

 Additional launch vehicles interested in Wallops beyond Antares and ISS re-supply

Requires infrastructure Improvements

 New support facilities on north end of Wallops Island



Navy Field Carrier Landing Practice









-#11

- Wallops officials met with the Navy in November 2011
- Practice Turboprop Landing Requirements
 - On average,
 - 5 training events per year for approximately 2-3 weeks
 each event
 - 13 training events for approximately 1 week each event
 - One 3 hour day period and/or one 3 hour night period per training day
- Navy conducting Environmental Assessment (EA) to examine potential impacts - completion expected in the Fall of 2013
 - NASA is a Cooperating Agency with Navy on EA
 - Wallops recognizes expressed concerns of nearby
 communities such as Trails End, and will work with Navy to
 ensure landing approaches minimize potential noise impacts

Future Projects

- Lunar Atmosphere and Dust Environment Explorer (LADEE)
 - •Launch mid-2013 from Wallops
 - Minotaur V
- Low Density Supersonic Decelerator (LDSD)
 - Qualification of new class of supersonic decelerators
 - •WFF role: All aspects of balloon development and operations, some instrumentation
 - Flight test late 2013.
- •Global Precipitation Measurement program
 - •Launch in 2014
 - Wallops developed High Gain
 Antenna arm
 - Ground validation program



LDSD



Our future looks bright!

Questions?